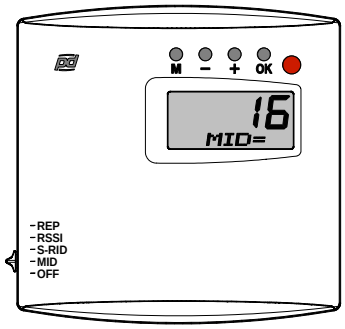
FLSER OPERATING INSTRUCTIONS

1. Commissioning of TEFL room unit with FLSER tool



a) In the switch position MID the TEFL room unit can be connected to the wanted FLTA receiver (1-63) by using the – and + buttons on the top of the display. (Picture 1)

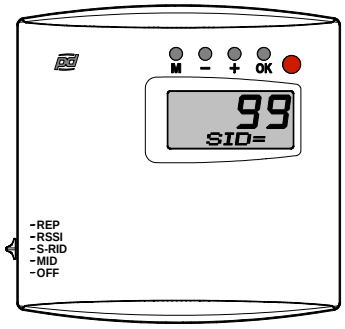
b) Choose the switch position S-RID to define the TEFL room unit's own ID (SID 1-99) (picture 2)

c) Press the "OK" button and on the display appears flashing text "WAIT"

d) Remove the battery from the chosen TEFL room unit for a moment and put it back. This must be done in 30 seconds, otherwise the FLSER tool goes back to the normal stage.

e) When the chosen TEFL room unit starts up and the programming has been successful, there appears a text OK to the display. Also the LED's of TEFL room unit and FLSER tool will flash 5 times simultaneously.

2. Commissioning of FLREP repeater with FLSER tool



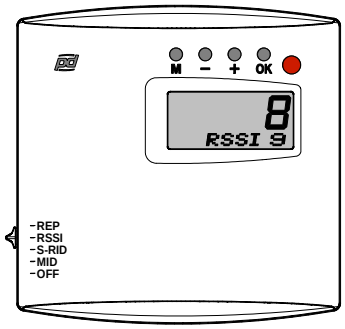
a) Choose the switch position S-RID and press button M on the top of the display. After that there appears a text RID to the display and the repeater ID 1-8 can be chosen by using the – and + buttons.

b) Press the "OK" button and on the display appears flashing text "WAIT"

c) Connect the supply voltage 24 V ac/dc to the FLREP repeater. This must be done in 30 seconds, otherwise the FLSER tool goes back to the normal stage.

d) When the chosen FLREP repeater starts up and the programming has been successful, there appears a text OK to the display. Also the LED's of FLREP repeater and FLSER tool will flash 5 times simultaneously.

3. Signal strength measuring with the FLSER tool



a) In the switch position RSSI the FLSER tool can be used for the measuring of signal strength

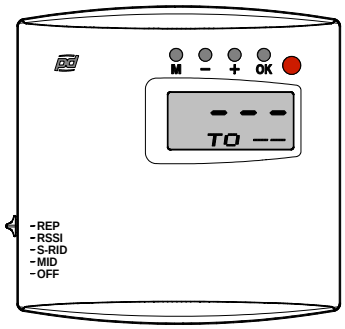
NOTE! When the switch is in the RSSI position, the FLTA receiver ends the normal service of the network. There appears also a text "ON CARE" to the FLTA receiver's display. FLTA receiver goes back to its normal stage after 30 seconds, when the RSSI position is switched off. During the "ON CARE" stage, it is possible that the TEFL room units go to the energy saving mode. The TEFL room units go back to the normal stage 5 minutes after the FLTA receiver is back on its normal stage.

b) FLSER tool shows now on its display the intensity of its own signal strength (upper reading) and the signal strength measured by the FLTA receiver (lower reading)

Adequate signal strength is reached with values 2-9, if the value is lower than 2 it is recommended to use the FLREP repeater between the room units and the receiver.

NOTE! FLSER tool shows the direct intensity of the signal strength between the FLTA receiver and the FLSER tool. FLSER tool doesn't use the possibly installed FLREP repeaters to the signal strength measuring.

4. FLSER tool in the repeater emulation



In the switch position REP the FLSER tool can be used to emulate the FLREP repeater. During this application there shouldn't be installed any FLREP repeaters. The feature of this application is to ease up the installation of actual FLREP repeater and to find a suitable location for it.

For example, if the installation location doesn't have adequate signal strength, the FLSER tool can be used to emulate the position of FLREP repeater and the adequate intensity can be checked by using the FLTA receivers own signal strength measuring. By these measures can be assured that the signal strength is adequate (RSSI 2-9)

NOTE! The repeater emulation will deplete the battery of FLSER tool in 100h, therefore the FLREP repeaters will need 24 V ad/dc supply

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